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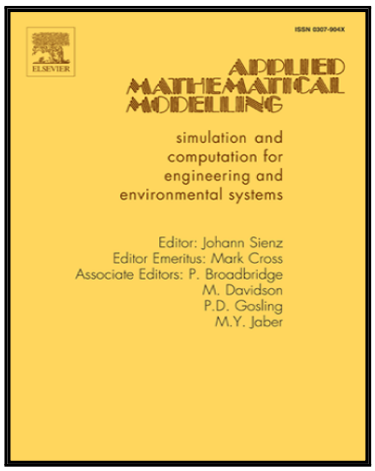

Wavelet feature parameters representations of open planar curves

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PII: S0307-904X(17)30362-1
DOI: 10.1016/j.apm.2017.05.035
Reference: APM 11787

To appear in: *Applied Mathematical Modelling*

Received date: 6 January 2017
Revised date: 16 April 2017
Accepted date: 23 May 2017

Please cite this article as: Wenrui Liu , Jianwei Sun , Bangcheng Zhang , Jinkui Chu , Wavelet feature parameters representations of open planar curves, *Applied Mathematical Modelling* (2017), doi: 10.1016/j.apm.2017.05.035

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Highlights

- The use of Haar wavelets to describe open planar curves is presented.
- The geometric significance of a wavelet approximation and a wavelet detail for open curves in the complex plane are given.
- The relationship of the wavelet feature parameters between the open curve and its transformations, including translation, scaling and rotation, is discovered.
- The application of this method to non-periodic design requirements of the linkage mechanism dimensional synthesis problem is presented.

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